

VAL'YANOV, A.F., editor-sel'kach. nauk, prof., stv. red.

[Proceedings woody plants in Eastern Siberia] Selekt. iia  
drevesnykh porod v Vostochnoi Sibiri. Moscow, Izd-vo  
Nauki, 1964. 92 p.  
(MIA 17:6)

1. Akademiya nauk SSSR. Nauk. otdeleniye. Institut  
lesa i drevesiny.

LEN ALEXEYEVICH; YULIN A. A., dokt. nayk, prof.  
professor; VASILIEVA, A. F., red.  
(Manual of treatment and care of the patient; a  
manual for medical, biomedical, preventive, and  
nursing personnel; double title: uchiteli. Im. k.,  
dop. Polk., Prez. sovetov, 1964. 477 p.  
(USSR 16:1)

ACC NR: AM014011

Monograph

UR/

Verbolov, Vladimir Il'ich; Sokol'nikov, Vladimir Mikhaylovich; Shimareyev, Mikhail Nikolayevich.

Hydrometeorological conditions and thermal balance of Lake Baikal. (Gidrometeorologicheskiy rezhim i teplotnyy balans ozera Baikal) Moscow, Izd-vo "Nauka", 1965, 372 p. illus., biblio. (At head of title: Akademiya nauk SSSR. Sibirskoye otdeleniye. Limnologicheskiy institut) Errata slip inserted. 1,000 copies printed.

TOPIC TAGS: hydrometeorology, hydrology, surface water, heat balance, air temperature, moisture measurement, solar radiation absorption, turbulent heat transfer, ice / лед / вода / температура

PURPOSE AND COVERAGE: This book presents the normal properties over several years of radiational and thermal balances of the surface of Lake Baikal. It describes processes of heat and moisture exchange with the atmospheric and internal water exchange ranging from the surface of the lake to depths of 200 meters. Also included is an analysis of the mechanism of a series of processes and phenomena which influence the hydrometeorological conditions of Baikal.

Card 1/2

ACC NR: A6014511

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SUB CODE: 04,08 / SUBM DATE: 15Mar65/ ORIG REF: 322/ OTH REF: 010/

Card 2/2

VERSHOV, Vladimir Ilich, SOKOLNIKOV, Vladimir Mikhailevich;  
SHIMARAYEV, Nikolai Nikolaevich; SHLAZIN, G.I., ed.  
red.

[Hydrometeorological regime and heat budget of Lake Baikal]  
Gidrometeorologicheskiy rezhim i teplotnyy balans ozer  
Baikal. Moskva, Nauka, 1965. 372 p. (MIRA 18:5)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3

BEZMOZGIN, E.S.; SHIMARAYEV, N.I.

Experimental processing of F layer shales in gas generators.  
Trudy VNIIPS no.5:133-141 '56. (MLRA 10:5)  
(Oil shales--Refining)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3"

ACC NR: AP7004637

SOURCE CODE: UR/0288/66/000/003/0086/0090

AUTHOR: Makarevich, G. A.; Shimarev, S. K.

ORG: none

TITLE: Formation of stream in an electromagnetic shock tube

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1966, 86-90

TOPIC TAGS: shock wave structure, plasma shock wave, shock tube, discharge chamber, plasma electromagnetics, gas discharge

ABSTRACT: Experiments with electromagnetic shock tubes are described whose aim was to form slow ( $T_{discharge} \approx 10^{-4}$  sec) gas discharge and increase the region of discharge ("working plug region") characterized by homogeneous thermically ionized plasma. The three types of discharge chambers were 3m long and 80mm in diameter made of vitreous transparent plastic and vacuum chambers containing physical or aerodynamic models. All chambers had an efficiency of 50--60%. The working gas was air and the discharge was initiated from a 1200 $\mu$ fd capacitor bank charged to 5kV. It was established that the "plug" practically could not be observed when initial gas pressure was  $P_0 < 1\text{ mm Hg}$ . Its dimensions, however, increased to 10cm at  $P_0 = 5\text{ mm Hg}$ . To further increase its size the authors attempted to 1) place a metallic section 1m long next to the discharge chamber leaving the rest to be plastic as previously, 2)

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UDC: 533.951+533.6.011.72+533.6.071.8

ACC NR: AP7004637

place a copper or teflon meshed section with 70% transparency in the same manner, and  
3) place a pulse accumulator next to the discharge chamber. This accumulator, en-  
closing air at  $P = 1$  atm by a rubber membrane from one side and by a polyamide film  
on the other, let the air flow into the discharge chamber when the membrane broke at  
the initial stage of the discharge. Orig. art. has: 1 table and 4 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2

L 22334-66 EWT(1)/EMP(m)/EWA(d)/EWA(h)/EWA(1) WW  
ACC NR: AP6013206 SOURCE CODE: UR/0421/66/000/002/0108/0114 54  
B

AUTHOR: Bogoslovskiy, K. Ye. (Moscow); Kireyeva, N. I. (Moscow); Makarevich, G. A.  
(Moscow); Tsvetayev, Yu. A. (Moscow); Shimarev, S. K. (Moscow); Tarantov, Ye. A.  
(Moscow)

ORG: none

TITLE: Investigation of unsteady flows past models in an electromagnetic shock tube

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, 108-114

TOPIC TAGS: experiment aerodynamics, electromagnetic shock tube, strong shock wave,  
detached shock wave, shock wave reflection, supersonic flow

ABSTRACT: An experimental investigation of unsteady flows moving behind strong shock  
waves produced by electric discharges past models of various shape was carried out  
in an electromagnetic shock tube. The purpose of this study was to determine the  
time of flow transition from an unsteady to a steady state in the stagnation-point  
region and to check the theoretical data on flow parameters behind strong shock waves.  
The electromagnetic shock tube, experimental set-up, instrumentation, and test proce-  
dure are described. The results obtained in an electric discharge shock tube with  
wave velocity of the order of 8000 m/sec show that: 1) the obtained dependence of  
the nondimensional value of the relative shock wave detachment on bluntness as a  
function of nondimensional time makes it possible to determine the time of the estab-

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L 22334-66

ACC NR: AP6013206

lishment of the flow near the stagnation point of spheres and cylinders in flows behind strong shock waves; 2) the experimental values of velocity and pressure behind reflected shock waves from the end plate of a shock tube are in satisfactory agreement with theoretical computations, taking account of dissociation and ionization; 3) the values of the relative, steady shock-wave detachment from the stagnation point of spheres and cylinders with flat bluntness in axial flows agree well with theoretical data obtained by others. Orig. art. has: 9 figures. [AB]

SUB CODE: 20/ SUBM DATE: 23Apr65/ ORIG REF: 006/ OTH REF: 002/ ATD PRESS:

4292

Card 2/2ddc

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3

SIVAK, A., 1928.

Improvement of the automatic control network of a compressor.  
Energetik 12 no.10:21 0 '64. (MLA 17:11)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3"

SHIMKIS, J. I., Card Tech Sci -- (diss) "Investigation of the working process of tractor motors with a chamber in the piston." Kaunas, 1960. 32 pp with illustrations; (State Committee of Higher and Secondary Specialist Education of the Council of Ministers of the Lithuanian SSR, Lithuanian Agricultural Academy); 170 copies; free; (KL, 1c-60, 1953)

SO Vecheryaya Moskva

Sum 71

1. "SO Vecheryaya Moskva" (see below) is the name of a

2. "SO Vecheryaya Moskva" (see below)

**SO Vecheryaya Moskva  
Sum 71**

CHERNYAVSKIY, D.L., kand.tekhn.nauk; DORFMAN, Yu.I., inzh.; SHIMBERG, Ye.I.

Design of the unitized bodywork of the TE10 diesel locomotive.  
Vest.TSNII MPS 22 no.5:27-32 '63. (MIRA 16:8)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina i  
Khar'kovskiy zavod transportnogo mashinostroyeniya imeni  
V.A.Malysheva.  
(Diesel locomotives--Design and construction)

BROVAR, Vsevolod Vladimirovich; MAGNITSKIY, Vladimir Aleksandrovich;  
SHIMBIREV, Boris Pavlovich; YURKINA, M.I., retsenzent;  
MAKAROV, N.P., retsenzent; VIROVTS, A.M., retsenzent;  
VASIL'YEVA, V.I., red. izd-va; SUGUROV, V.S., tekhn. red.

[Theory of the earth's figure] Teoriia figury Zemli. Pod  
obshchey red. V.A.Magnitskogo. Moskva, Izd-vo geodez. lit-ry,  
1961. 256 p. (MIRA 15:3)

(Earth—Figure) (Gravity)

BROVAR, V.V., dotsent, kand. tekhn. nauk; PELLINEN, L.P., kand. tekhn. nauk;  
SHIMBEREV, B.P., dotsent, kand. tekhn. nauk

Mikhail Sergeevich Molodenskii, winner of the Lenin Prize.  
Izv. vys. ucheb. zav.; geod. i aerof. no.3:53-55 '63.  
(MIRA 17:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki  
i kartografii.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3"

Shimbireva, K. Kn.

Shimbireva, K. On the theory of partially ordered groups.  
Rec. Mat. [Mat. Shornik] N.S. 20(62), 145-178 (1947).  
(Russian. English summary)

L'auteur pose la question sous quelles conditions un groupe peut être doté d'un ordre partiel tel que l'ensemble des éléments plus grands que l'identité engendre le groupe entier. Par exemple, c'est possible pour chaque groupe, dont le facteur-commutateur n'est pas périodique. L'auteur démontre que deux décompositions directes de ces groupes + la possèdent un raffinement commun et donne des conditions pour la possibilité de décompositions sous-directes.  
H. Freudenthal (Utrecht).

Source: Mathematical Reviews.

Vol. No.

SUTTYKHEVA, Ye. F.

K teorii chastichnykh uporyanlochennykh grupp. Matem. sb., 20 (62), (1947), 145-172.

SO: Mathematics in the USSR, 1917-1947  
edited by Kurosh, A.G.,  
Markushevich, A.I.,  
Rashevskiy, P.K.  
Moscow-Leningrad, 1948

2. Middle East, IRAN, S.I.

Date for overdrilling wells. Neft, 1 gas, pros. no. 3-47-49  
(MERA 17 12)  
31/12/1962

L 11380-63

EWT(m)/BDS AFFTC/ASD

S/120/63/000/002/013/041

53

52

AUTHORS: Golikov, V. V., Shimchak, G. F., and Shkatula, A. A.

19

TITLE: A very efficient slow-neutron detector using a ZnS(Ag)+ B<sub>2</sub>O<sub>3</sub> mixture

PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2, 59-62

TEXT: The authors investigated the scintillation properties of the T-1 detector (in which the ratio ZnS:B<sub>2</sub>O<sub>3</sub> is 3:1 by weight in a mixture of ZnS(Ag) + B<sub>2</sub>O<sub>3</sub>) in order to demonstrate that the maximum efficiency of such detectors is greater than the 5 percent estimated in earlier articles. The grain size, surface density, shape of detector surface, and composition were varied to find the highest efficiency: 60 percent for a 125 mg/cm<sup>2</sup> surface density, saw-toothed surface (30° wedges), 300-570/<sub>4</sub> grain size, a boron-oxide enriched composition

Card 1/2

L 11380-63

S/120/63/000/002/013/041

A very efficient flow-neutron...

and  $\gamma$ -ray elimination (achieved by setting the instrument threshold so that its efficiency in registering Co<sup>60</sup>  $\gamma$ -rays was  $10^{-4}$  percent). Experiments on a laboratory model with a detector area of 2000cm<sup>2</sup> showed that double-coincidence operation reduces the efficiency by only about 15 percent, as does  $\gamma$ -ray elimination. A detector with 300 cm<sup>2</sup> area has operated for 14 months without deterioration in its characteristics. There are five figures.

ASSOCIATION: Ob'yedinennyi institut yadernykh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: April 28, 1962

ja/  
Card 2/2

*L. CHIHOVSKY*

Poland/Cultivated Plants. Commercial. Oil-Bearing. Sugars.

Abs Jour: Ref Jour-Biol., No 5, 1958, 20418.

Author : S. Rescovskiy, L. ~~Chihovskiy~~.

Inst : Institute of Plant Selection and Acclimatization.

Title : Progress in Sugar Beet Selection and Cultivation.  
(Destizbenija v selektsii i vycashchivaniu slobarnoy  
svekly).

Orig Pub: Zesz. przl. "Kazino", 1955, No 1, 62-77.

Abstract: In the production of sugar, Poland occupies fourth place after the USSR, Germany and France. The consumption of sugar in 1949 was 19 kilograms per person. For the following six years the area growing beets grew by 25%, and the yield by 30%, reaching 240 centners per hectare. Scientific work on the sugar beet has been conducted in the Institute for Plant Selection and Acclimatization.

Card : 1/2

YEVSEYEV, V.S.; KOMAROV, V.I.; KUSH, V.Z.; ROGANOV, V.S.; CHERNOGOROVA,  
V.A.; SHIMCHAK, M.M.

[Asymmetry in the angular distribution of neutrons emitted in the  
capture of  $\pi^-$ -mesons in calcium] Asimmetriia v uglovom raspredelenii  
neutronov, ispuskaemykh pri zakhvate  $\pi^-$ -mesonov v kal'tsii.  
Dubna, <sup>Obninsk</sup>edinennyi in-t iadernykh issl., 1961. 27 p.  
(MIRA 14:11)

(Neutrons) (Mesons--Capture) (Calcium)

20685

3/120/61/100/001/020/062  
E/32/E314

1.5.5.1

AUTHORS: Yevseyev, V.S., Komarov, V.I., Kush, V.Z.,  
Pogonov, V.S., Chernororova, V.A. and Soshinshak, N.N.

TITLE: A Multilayer Scintillation Detector for the  
Recording of Neutrons in the Presence of  $\gamma$ -rays

PUBLICATION: Pribory i tekhnika eksperimenta, 1961, no. 1,  
pp. 65-72

TEXT: A description is given of a neutron detector having a high sensitivity to neutrons but a low sensitivity to  $\gamma$ -rays. The detector is designed for the energy range 5-20 MeV. The detector is similar to that reported by Baker and Rubbia (Ref. 1). The multilayer detector is based on the difference between the ranges of protons and electrons of the same energy. The detector consists of a number of thin scintillators, each having a thickness  $h$ . The scintillators are separated by opaque partitions. The device is so arranged that scintillations from layers 1, 3, 5, etc. are recorded by one photomultiplier and scintillations from the remaining layers by another. If the energy of an electron is sufficient

Card 1/1:

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S/120/61/000/001/20/062  
E022/E314

A multilayer....

For it to penetrate into a neighbouring layer, then coincident pulses will be produced in the two photomultipliers. The electronic circuitry employed is such that it rejects coincident pulses. Non-coincident pulses arising in either of the photomultilayers are analysed by a kicksorter. In this way, one can separate recoil protons from electrons due to  $\gamma$ -rays. The multilayer detector consists of 28 discs (diameter 10 mm,  $h = 1.5$  mm). The discs are made from a plastic based on polystyrene with the addition of 2% p-terphenyl + 0.2% a-PO.

The neighbouring discs are separated from each other by pieces of black paper, 0.05 mm thick. The detector consists of two identical parts placed in series. In each part, scintillations from "even" discs are collected through perspex light pipes by the corresponding two multipliers, whilst the scintillations from the "odd" discs are collected by two other photomultipliers.

In order to prevent the light from the "even" discs from entering the photomultipliers belonging to the "odd" discs (and conversely), the side surfaces of the discs are separated into four equal parts and two (opposite) of these are covered

20685

5/120/61/000/001/020/r62

E032/-314

A Multilayer ....

by an aluminium foil. Altogether, the detector incorporates 8 photomultipliers of the type  $\phi\gamma\gamma\gamma$  (FEU-29). Each photomultiplier was placed in a separate magnetic screen made of soft iron. The light guides were not in optical contact w.t the scintillators, which reduced the amplitude of the pulses but simplified the operation. Pulses from each photomultiplier group were amplified and equalised in amplitude. The maximum amplitude of Co60  $\gamma$ -ray pulses was about 0.01 V. The pulses were then fed into an adding circuit and the pulses from the adding circuit and those from one of the photomultiplier groups were fed into a coincidence circuit and a discriminator, which were so arranged that coincident pulses were rejected while those which were not in coincidence were allowed to pass on into a kicksorter. Detailed tests carried out on this detector have shown that its sensitivity to  $\gamma$ -rays is lower by a factor of 2 and its sensitivity to neutrons is higher by a factor of 2, as compared with the detector reported by Baker and Rubbia in Ref. 1. It is said that this is due to the fact that the thickness of each scintillator in the present instrument is

Card 3/h

20685

a multilayer ....

S/120/61/000/01/020/062  
E032/-314

lower by a factor of 1.2 while the total thickness of the device is smaller by a factor of 2.7, as compared with Ref. 4. There are 6 figures and 6 references: 2 Soviet and 4 non-Soviet.

ASSOCIATION: Ob'yedinennyy institut Yadernyykh issledovaniiy  
(Institute for Nuclear Research)

SUBMITTED: February 5, 1960

Card 1/4

YEVSEYEV, V.S.; KOMAROV, V.I.; KUSH, V.Z.; ROGANOV, V.S.; CHERNOGOROVA,  
V.A.; SHIMCHAK, M.M.

Scintillation laminer detector recording fast neutrons in the  
presence of gamma quanta. Prib. i tekhn. eksp. 6 no.1:68-72  
Ja-F '61. (MIRA 14:9)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Neutrons) (Scintillation counters)

YEVSEYEV, V.S.; KOMAROV, V.I.; KUSH, V.Z.; ROGANOV, V.S.; CHERNOGOROVA, V.A.;  
SHIMCHAK, M.M.

Asymmetry of the angular distribution of neutrons emitted in the  
capture of  $\mu^-$ -mesons in calcium. Zhur.eksp.i teor.fiz. 41  
no.1:306-307 Jl '61. (MIRA 14:7)

1. Ob"yedinenyyi institut yadernykh issledovaniy.  
(Mesons—Capture) (Neutrons—Scattering)

*Top Secret - Soviet Nuclear Information Exchange  
Joint Institute for Nuclear Research  
July 1982*

Report presented at the Int'l. Conference on High Energy Physics, Geneva,  
4-1 July 1982

Joint Institute for Nuclear Research  
Lab. of Nuclear Problems

Z 00453-66 ENT(1) LIP(2)  
ACC NR: AP6009354

SOURCE CODE: FO/0095/65/013/003/0111/0118

AUTHOR: Shimchak, R.

ORG: Department of magnetics, Institute of Fundamental Technical Problems, Polish Academy of Sciences (Zaklad Magnetykow, Instytut Podstawowych Problemow Techniki, PAN)

TITLE: Wavy structure of uniaxial ferromagnetics

SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques, v. 13, no. 8, 1965, 111-118

TOPIC TAGS: ferromagnetic structure, crystal, magnetic domain structure, uniaxial crystal

ABSTRACT: Theoretical analysis was made of the domain wavy structure of the uniaxial ferromagnetics. The dependence of the width of domain D and parameters characterizing the shape of the regions  $\alpha$  and  $\gamma$  on the thickness of crystal L was derived. Precise calculations and their comparison with the experimental data were carried out for magnetoplumbite. The author expresses his thanks to Professor A. K. Smolinski for affording the possibility to carry out this investigation and for his valuable remarks. Thanks are due also to Docent R. Wadas for his interest in the course of this work and for the discussion which helped the author to elucidate many problems under consideration. Orig. art. has: 7 figures and 14 formulas. [Based on author's abstract.]

[AM]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 002/  
Card 1/1

BELYAYEV, B.N.; MAL'TSEVA, N.S.; MEKHEDOV, V.N.; MIN NAM BUK;  
SHIMCHAK, R.A.; SARANTSEVA, V.R., tekhn. red.

[Formation of At<sup>209</sup> and At<sup>207</sup> in the bombardment of Bi and Pb  
with high-energy protons] Obrazovanie At<sup>209</sup> i At<sup>207</sup> pri bom-  
bardirovke Bi i Pb protonami vysokikh energii. Dubna, Ob"edinen-  
nyi int iadernykh issledovanii, 1962. 9 p. (MIRA 15:6)  
(Astatine--Isotopes) (Protons)

S/056/62/043/004/001/061  
B102/B186

AUTHORS: Belyayev, B. N., Mal'tseva, N. S., Mekhedov, V. N., Min Nam  
Buk, Shimchak, R. A.

TITLE: Formation of At<sup>209</sup> and At<sup>207</sup> isotopes on bombardment of bis-muth and lead with high-energy protons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 4(10), 1962, 1129 - 1134

TEXT: The yields of the lightest astatine isotopes (At<sup>207, 209</sup>), formed through the capture of fragments impelled by more than 40 Mev, were studied in the course of radiochemical examinations of astatine formation reactions during the bombardment of Bi<sup>83</sup> and Pb<sup>82</sup> with high-energy protons (cf. ZhETF, 35, 96, 1958; 39, 230, 1960). Under the same experimental conditions as in preliminary studies, the synchrocyclotron of the OIYAI was used for proton-irradiation at 120-660 Mev. The spectra were measured using an ionization- $\alpha$ -spectrometer with a grid and the relative yields were calculated from the height of the individual peaks. The astatine isotopes 207-211 are assumed

Card 1/2

Formation of At<sup>209</sup> and ...

5/05/67/C43/C04/C01/C01  
S102/S106

to form with a greater probability than obtained in previous investigations (ZhETF, 39, 527, 1960) in "secondary" capture reactions of superbARRIER nuclei, such as He<sup>3</sup>, He<sup>4</sup>, and Li, which have themselves been formed multiple interactions of high-energy nucleons. There are 1 figure and 1 table.

ASSOCIATION: Ob'yedinenyyj institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: March 31, 1962

Table: Relative yields with respect to At<sup>211</sup>.

Legend: (1) Target; (2) bombarding particle and its energy in Mev.

	(1)	(2)	At <sup>209</sup>	At <sup>210</sup>	At <sup>211</sup>	At <sup>212</sup>
Bi		$\begin{cases} p, 660 \\ p, 660^{(1)} \\ p, 120 \\ p, 130^{(1)} \\ p, 150^{(1)} \end{cases}$	$0.81 \pm 0.08$ $0.82 \pm 0.12$ $0.96$ $0.63 \pm 0.10$ $1.02 \pm 0.20$	$0.72 \pm 0.06$ $-$ $0.64 \pm 0.06$ $-$ $0.81 \pm 0.22$	$0.40 \pm 0.04$ $-$ $\sim 0.5$ $-$ $0.22 \pm 0.05$	$0.51 \pm 0.04$ $-$ $0.30 \pm 0.03$ $-$ $0.10 \pm 0.01$
Pb		$\begin{cases} p, 660 \\ p, 200 \\ d, 400 \\ a, 800 \end{cases}$	$-$ $-$ $-$ $-$	$1.43 \pm 0.43$ $1.31 \pm 0.28$ $1.52 \pm 0.25$ $-$	$-$ $-$ $-$ $-$	$0.61 \pm 0.13$ $(0.62 \pm 0.11)$ $(0.56 \pm 0.15)$ $(0.72 \pm 0.11)$ $(0.71 \pm 0.11)$

Card 2/2

L 13622-63 EWT(m)/FCS(f)/BDS AFFTC/ASD  
ACCESSION NR: AP3003100

S/0056/63/044/006/1800/1805 547

AUTHOR: Wang, Ch'uan-p'eng; Mekhedov, V. N.; Rybakov, V. N.; Shimchak, R. A.

TITLE: Search for secondary deuterium and tritium capture reactions 19

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 1800-1805

TOPIC TAGS: heavy arsenic isotope yield, deuterium capture, tritium capture

ABSTRACT: The yields of heavy arsenic isotopes produced by bombarding germanium with 120, 300, 480, and 660 MeV protons are measured by a radiochemical method. With increase of proton energy, all yields decrease monotonically, with values ranging from 3.4--1.0, 1.0--0.38, and 0.13--0.035 mb for As<sup>74</sup>, 76, and 77, respectively. The main interest was in the study of reactions involving superbarrier deuterium and tritium capture reactions. The primary (p,xn) reactions are apparently the mechanism for the production of As<sup>74</sup> and As<sup>76</sup>. The isotope As<sup>77</sup> is probably formed as a result of capture of superbarrier tritium nuclei. The origin of As<sup>77</sup> is more complicated. At low proton energies (120 and 300 Mev) it is essentially obtained via secondary deuterium and tritium nuclear capture reactions. At higher proton energies the overwhelming part of the isotope is apparently obtained via secondary Alpha-particle capture

Cord 1/2

L 13622-63

ACCESSION NR: AP3003100

reactions. "The authors thank B. V. Kurchatov and V. M. Mal'tsev for valuable remarks." Orig. art. has: 4 formulas and 1 table.

ASSOCIATION: Ob'yedinenny'y institut yaderny'kh issledovaniy (Joint Institute  
for Nuclear Research)

SUBMITTED: 07Jan63 DATE ACQ: 23Jul63 ENCL: 00  
SUB CODE: 00 NO REF SOV: 008 OTHER: 020

Card 2/2

GZHESIK, Ya.; LEMPKOVSKI, A.; TURCHIN'SKI, B.; FAZANOVICH, Ya.;  
SHIMCHIK, K.

Comparison of methods for estimating loudness, based on data  
published in 1930-1957; a survey. Akust. zhur. 6 no. 4:419-440  
'60. (MIRA 13:12)

1. Institut meditsiny truda; Meditsinskaya akademiya g. Zabzhe i  
Kafedr akustiki i teorii kolebaniy Universiteta im. Adama Mits-  
kevicha g. Poznan' (Pol'sha).  
(Sound—Measurement)

S/186/003/001 019/000  
A051/A129

AUTHORS: Torok, L.A. Utronskii, I.I., Shmelev, S.Ya.

TITLE: Separation of iron and cobalt using ASD-2 (ASD-2) anionite

PUBLICATION: Radiotekhnika i vysokaya radiofizika, v. 3, no. 1, 1960, p. 114-116

TEXT: The Soviet authors used ASD-2 strongly-basic anionite was used to separate small quantities of iron and cobalt in addition to the radioactive isotopes  $Fe^{59}$  and  $Ce^{60}$ . It was found that admixtures of  $Fe^{55}$  and  $Ce^{60}$  were present in the radioactive  $Fe^{59}$  sample. The authors showed that it was possible to use the ASD-2 anionite instead of the Dowex-1X8 for separating iron and cobalt. The experimental procedure was as follows: the radioactive solutions of iron and cobalt were prepared in two ways. a) 1.15 g of iron powder containing its radioactive isotope were dissolved in 10 ml of hot 6 n. HCl and evaporated until almost dry, then  $FeCl_3$  was dissolved at room temperature in 40 ml of 11.3 n HCl. Ammonia was passed through the solution in order to

Card 1/4

S/186/61/003/001/019/020  
A051/A129

Separation of iron and cobalt ...

flow of the washing-out agents was regulated by the height of the mercury column and was equal to  $0.05 \text{ ml} \cdot 0.03 \text{ cm}^{-2} \cdot \text{min}^{-1}$ . The separation was carried out at room temperature. The activity of the initial solution and eluates was measured on a butt counter with a statistical error of  $\pm 3\%$ . There are 2 graphs and 9 references: 5 Soviet-bloc, 4 non-Soviet-bloc.

Card 3/4

SHIMCHISHIN, Ye.F.

Industrial training in well drilling. Neft.khos.33 [i.e.34]  
no.9:68-70 S '56. (MIRA 9:10)  
(Oil well drilling)

SHIMCHISHIN, Ye.

Results of the Turkmen Petroleum Association's introduction of  
consolidated norms for derrick construction. Neft.khoz. 35 no. 3:57-  
60 Mr '57. (MLRA 10:4)  
(Turkmenistan--Oil wells--Equipment and supplies)

SHIMCHISHIN, Yevgeniy Fedorovich; ISAYEVA, V.V., vedushchiy red.;  
GANINA, L.V., tekhn.red.

[Work organization for the erection of drilling rigs and  
supporting structures; practices of drillers in the Turkmen  
S.S.R.] Organizatsiya truda pri stroitel'stve burovym;  
opyt burovikov Turkmenskoi SSR. Moskva, Gos.nauchno-tekhn.  
izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 41 p.

(MIRA 13:5)

(Boring machinery) (Oil well drilling rigs)

SHIMCHISHIN, Ye.F.; KAYESHKOVA, S.M., vedushchiy red.; VORONOVА, V.V.,  
tekhn. red.

[Labor productivity in oil well drilling; practices of the drilling department of the Oil Field Administration of the Cheleken-neft'. Moskva, Gostoptekhizdat, 1962. 70 p. (MIRA 15:7)  
(Trust) (Cheleken region—Oil well drilling—Labor productivity)]

SHIMCHISHIN, Ye.F.

Hourly bonus and piecework wage systems in drilling. Neft.  
khoz. 40 no.7:8-11 J1 '62. (MIRA 17:3)

SHIMONISHIN, Ye.F.

Completed well as a basic index for the planning and calculation  
of drilling operations; discussion of I.IA. Vainer's article.  
Neft, khoz. 41 no.2:10-12 F '63. (MIRA 17:8)

5-10-29/30

AUTHORS: Karzhizek, A. and Shimechek, V., Senior Assistants

TITLE: The Teaching of Foreign Languages at the Prague Institute of Transports (Prepodavaniye inostranniyh yazykov v Prazhskom transportnom institute)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 10, pp 94-95 (USSR)

ABSTRACT: The Prague Engineering Institute of RR Transport has four faculties, - Building, Mechanical, Exploitation, Electrical Engineering - and correspondence courses.

The authors point out that knowledge of foreign languages is very important to future engineers. A compulsory course of Russian was included into the program.

The chair of languages at the institute has three senior assistants, elected for three years. They may remain for nine years at the chair in the capacity of assistants. During that period they must reach the grade of a dotsent. Experienced workers who do not obtain a grade may be transferred to the category of lecturer-specialists.

Requirements in the study of Russian are very high. The study of other foreign languages is not yet compulsory, but is planned for the future, i.e. the introduction of German

Card 1/2

SHIMECHEK, Ya.; OPPL, L.

Evaluation of dust in the air of working areas according to the weight and number of the particles. Gig.i san. 25 no.1:97-99  
Ja '60. (MIRA 13:5)

1. Iz Instituta gigiyeny truda i professional'nykh zabolеваний,  
Praga.  
(DUST)

CZECHOSLOVAKIA / Microbiology. Medical and Veterinary Microbiology.

F-5

Abs. Jour: Referat Zh.-Biol., № 6, 25 March, 1957, 22101

Author : Shimek, Frants, Shtedran, Gais  
Inst :  
Title : Antitubercular Factor in Milk.

Orig Pub: Českosl. hyg., epidemiol., mikrobiol., immunol., 1955, 4, № 3,  
124-127

**Abstract:** By experiments in vitro and in vivo (on mice) in human and goat milk and in milk whey, the presence of a thermostable and acid resistant agent, which inhibits development of tubercular microbacteria, was established. This agent is retained in milk even after filtration through a cellophane membrane. By its nature and characteristics this so far unknown agent must probably be classified as an antibiotic.

Card : 1/1

-61-

KUTIL, I.; KURACHKA, F.; SHIMEK, I.

Use of polyelectrolytes for the recovery of gold from waste waters.  
Zhur.prikl.khim. 34 no.11:2430-2435 N '61. (MIRA 15:1)

1. Gosudarstvennyy institut blagorodnykh metallov, Praha i  
Issledovatel'skiy institut sinteticheskikh smol i lakov, Pardubitse.  
(Waste products) (Gold)

, e. -- "The Effect of Wind on Cereals yields and Measures to Improve it." Moscow Order of Lenin Agricultural Academy imeni V. I. Ul'yana. Moscow, 1955. (Dissertation for the Degree of Candidate of Agricultural Sciences.)

C: Zinichnyj listok, No. 4, Moscow, 1956

DRAGNY, M.; SHIMEK, S.

Symposium on technical and economic problems in nuclear engineering.  
Atom. energ. 12 no.5:436-438 My '62. (MIRA 15:5)  
(Nuclear engineering)

ACC NR: AP6033605

SOURCE CODE: CZ/0043/66/000/001/0043/0054

AUTHOR: Simek, Ivan--Shimek, T. (Engineer; Candidate of sciences; Bratislava); Smid, Jaroslav--Shmid, Ya. (Engineer; Bratislava) 32

ORG: [Simek] Department of Organic Technology, Slovak Technical University, Bratislava (Katedra organickej technologie Slovenskej vysokej skoly technickej); [Smid] Slovak Petroleum n.p., Bratislava (Slovnaft, n.p.) B

TITLE: Influence of atacticity and crystallinity upon the dynamic and mechanical properties of polypropylene

SOURCE: Chemicke zvesti, no. 1, 1966, 43-54

TOPIC TAGS: polypropylene plastic, crystalline polymer, mechanical property

ABSTRACT: The dynamic and mechanical properties of polypropylene determined by the method of free torsional vibrations are related to the densimetric and extraction data of polypropylene characteristic for its atacticity and crystallinity. Orig. art. has: 6 figures and 2 tables. [JPRS: 34,805]

SUB CODE: 11, 20 / SUBM DATE: 23Jul65 / ORIG REF: 003 / SOV REF: 001

Card 1/1

0930 16379

SHIMEL', I. N. [deceased]

Characteristics of the morphological changes in the vessels of  
the brain in the cerebral form of malignantly progressing  
hypertension. Nauch. trudy Inst. nevr. AMN SSSR no.1:457-473  
'60.  
(MIRA 15:7)

1. Institut nevrologii AMN SSSR.

(HYPERTENSION) (BRAIN—BLOOD SUPPLY)

Category : USSR/Solid State Physics - Mechanical properties of crystals and poly E-9  
crystalline compounds

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1374

Author : Nemchinskiy, A.L., Fokina, N.M., Shimelevich, I.L.

Inst : Centr. Scientific Res. Inst., MSP, USSR

Title : On the Mechanical Properties of Steel with Austenite-Martensite Structure

Orig Pub : Metallovedeniye i obmabatka metallov, 1956, No 1, 30-35

Abstract : The investigation concerned the influence of the qualitative relationship between austenite and martensite on the mechanical properties of steel containing 0.2 -- 0.86% carbon. The specimens were hardened in air from 900 or 1150°, depending on the composition; the amount of martensite was determined by metallographic and magnetic methods. The quantitative ratio of the phases was changed by alloying the steel with Mn, Ni, and Cr and by cold working. It is shown that increasing the amount of martensite in low-carbon steel raises the yield point and the ultimate strength, the sharpest increase being observed at the start of the transformation. Scott's suggestion, that the abrupt change in the yield point in the martensitic transformation is caused by formation of a martensite skeleton, is not confirmed. In high and medium carbon steels, a relatively small degree of martensitic transformation (10 -- 20%) is enough to destroy the plasticity completely.

Card : 1/1

137-58-1-2002

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p269 (USSR)

AUTHOR: Shimelevich, I. L.

TITLE: On Static Bending Tests of Notched Specimens (Ob ispytanii na staticheskiy izgib nadrezannykh obraztsov)

PERIODICAL: V sb.: Metallovedeniye, Leningrad, Sudpromgiz, 1957,  
pp 70-80

ABSTRACT: An energy analysis is presented of the diagram of static bending of notched specimens, and data obtained from these experiments are presented. Specimens of the Mesnager type, with an acute 60° notch and a radius of curvature at the bottom of the notch of 0.2-0.3 mm, were tested on a IM-4A TsNIITMash machine for various values of accumulated system energy ( $E$ ) (0.79-4.5 kgm). The change in the magnitude of elastic energy is brought about by a special device with a set of Belleville disc springs. From the diagrams obtained the following characteristics were obtained by planimetry: a) the elastic  $E$  accumulated by the system at the moment the maximum load was attained; b) the supplementary work performed by the machine to develop an incipient crack; c) the ultimate work required to cause the specimen to

1/2

137-58-1-2002

On Static Bending Tests of Notched Specimens

fail. It is shown that the nature of the terminal portion of the diagram of static bending of notched specimens is determined by the ratio between the magnitude of the ultimate work of destruction of the specimen (the work involved in propagating a crack) and the elastic  $E$  accumulated in the specimen and in the parts of the machine. The type of fracture of the specimens may govern the nature of the diagram only if a change therein results in a change in the ratio indicated. Precise determination of the ultimate work of failure by planimetry of the diagram of flexure is possible only in the absence of discontinuities in the final portion of the diagram. In this connection, planimetry should be performed over an area separated from the initial portion by an inclined straight line plotted from the point of maximum load parallel to the elastic portion of the diagram, and not by the ordinate as had previously been believed. If there are discontinuities, plastic deformation may also occur in the specimen, but the expenditure of  $E$  thereon is not subject to precise determination and may be either very small or quite large. The claim that the ultimate work at fracture is equal to zero is not founded. The elastic energy accumulated by the system, which is largely dependent upon the rigidity of the testing machine, is a most important factor in determining the nature of the terminal portion of the bending diagram.

V. G.

Card 2/2

1. Materials--Test methods    2. Materials--Test results

137-58-1-1658

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 226 (USSR)

AUTHOR: Shimelevich, I. L.

TITLE: Spread of Cracks in Steel Sheets Due to Internal Stresses (Ras-postraneniye treshchin v stal'nykh listakh pod vliyaniyem vnutrenni kh napryazheniy)

PERIODICAL: V sb.: Metallovedeniye. Leningrad, Sudpromgiz, 1957,  
pp 81-99

ABSTRACT: On the basis of experimental investigations of the development of cracks (C) in steel sheets under the effect of internal stresses, it is established that the work of deformation to develop C may occur only at the expense of the reserve of elastic energy accumulated in the sheet. The magnitude of the elastic energy released as the C develop is directly proportional to the square of the magnitude of the internal stresses and the length of the C; this determines the conditions for the possibility of C formation. Comparison of the liberated elastic energy and the work of deformation necessary to cause metal to fail resulted in establishing a relationship for the critical dimensions of C (at which they will spread) due to internal stresses. In crystal-

Card 1/2

137-58-1-1658

**Spread of Cracks in Steel Sheets Due to Internal Stresses**

line fracture of steel, the critical length of the C is 8-15 mm, and in fibrous fracture it is 250-300 mm. Therefore, the presence of small C in the vicinity of welds may serve as the cause of brittle fracture of a structure. Fibrous fracture cannot occur in welded structures, as this requires exceedingly high stresses, attaining the order of magnitude of  $\sigma_b$ .

**1. Steel--Fracture    2. Steel--Stresses    3. Steel--Deformation**

V.G.

Card 2/2

sov/123-59-15-58973

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 18 (USSR)

AUTHORS: Kroshkin, A.A., Shimelevich, I.L.

TITLE: Investigations of the Strength of Notched Specimens of Brittle Steel

PERIODICAL: V sb.; Metallovedeniye, Vol 2, L., Sudpromgiz, 1958, pp 175 - 185

ABSTRACT: As a result of experimental investigations carried out it was found that, when submitting specimens of brittle materials to tensile strength tests, the effective coefficient of concentration of stress does not agree with the theoretical coefficient of concentration of stress. The cause of this discrepancy is the local plastic deformation at the basis of the notch which is taking place even in the case of the tested material being, to all appearance, in a brittle state. It is stated that the following factors influence the magnitude of the effective coefficient:

Card 1/2

SOV/123-59-15-58973

Investigations of the Strength of Notched Specimens of Brittle Steel

test temperature, size of the specimen, depth and pointedness of the notch. When testing various materials with the aim of determining the actual stress in a state of an existing concentration of stress it is recommended to use less pointed notches (with a larger radius of rounding at the top and with a great depth).

B.A.M.

Card 2/2

SOV/32-24-10-25/70

AUTHORS: Danilov, T. L., Ivanov, A. P., Kroshkin, A. A., Razov, I. A.,  
Shevandin, Ye. M., Shimelevich, I. L.

TITLE: Investigation of the Bending of a Broad Sample in Classifying  
the Deformability of Metals (Ispytaniye shirokoy proby na zagib  
dlya otsenki deformatsionnoy sposobnosti metallov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1233-1236 (USSR)

ABSTRACT: Testing the bending strength in the cold state serves to classify  
the plasticity of steel. According to OST 1683 a certain ratio  
between the width and the thickness of the sample must exist  
in the bending tests of sheet iron and other sectional materials.  
Under actual conditions the width of the sheet of metal exposed  
to bending exceeds, however, the thickness by ten- to one hundred-  
fold. For this reason the testing of sheet iron is carried out  
with broad samples at present. The new steel types ~~8Kh14,09g 2,~~  
~~MK~~ have a higher resistance to brittle breaking. The use of a  
wide sample in cold bending tests makes possible the classi-  
fication of the deformability of steel under rigid limiting  
conditions, close to real ones. The testing of the broad sample  
with respect to bending is to be arranged for sheet iron of

Card 1/2

SOV/32-24-10-25/70

Investigation of the Bending of a Broad Sample in Classifying the Deformability  
of Metals

any thickness. The results obtained are called satisfactory if the sample can be bent by  $120^\circ$  in the case of a special mandrel diameter, and if the sample does not break into two pieces on a further bending to  $180^\circ$ . From a diagram it may be seen that the extent of the maximum deformation of steel of type SKH11 decreases to a great extent with increase in the span width (Ref 2). According to a suggestion by A. P. Ivanov and S. S. Kanfar and parallel to tests with samples of normal width tests on broad samples with cores were also carried out. In papers by E. S. Volokhvyanskaya (Ref 6) tests of samples with grooves and numbered cores are described. It was found that the bending tests according to OST 1683 concerning the narrow samples ( $b=2a$ ) should be followed by those for broad samples ( $t=5a$ ) ( $b=\text{width}$ ;  $a=\text{thickness}$ ). There are 2 figures and 6 references, 5 of which are Soviet.

Card 2/2

SIMENOV, Yu. S., KUZNETSOV, N. K. and ZHURAVLYOV, V. F.

"The Possibilities of Using Neutron-Induced Active Sodium for Locating Oil-Containing and Water-Containing Layers and for Determining Water-Oil Contacts in Drive-Type Well Conditions".

Report appearing in 1st Volume of "Session of The Academy of Sciences USSR on the Peaceful Use of Atomic Energy, 1-5 July 1955", Publishing House of Academy of Sciences USSR, 1956.

SO: Sum 72 , 28 Nov 1955.

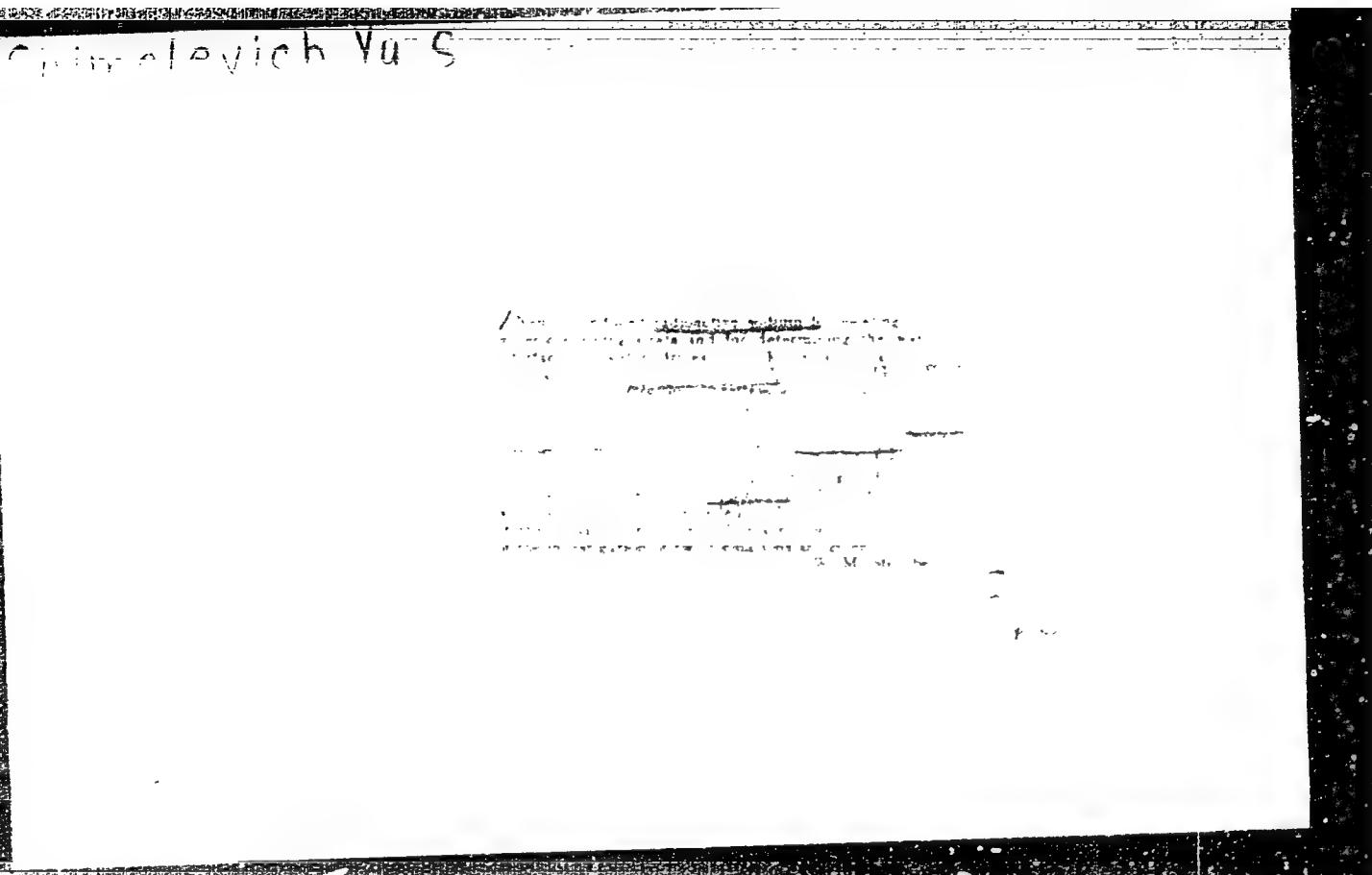
Shimelevich, Yu. S.

*Ref* ✓ Neutron induced radioactive sodium for locating oil and water-containing strata and for determining the water-oil interface in water drives. N. K. Kukhareko, V. P. Odinkov, and Yu. S. Shimelevich. Conf. Acad. Sci. U.S.S.R. on Peaceful Uses of Atomic Energy, Session Div. Tech. Sci. 1955, 103-71(Pub. 1956)(Engl. translation).— See C.A. 50, 559d. B. M. R.

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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3



APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3"

KUKHARENKO, N.K.; SHIMELEVICH, Yu.S.; HESPALOV, D.F.; OKHOKOV, V.A.

New geophysical method of exposing petroleum- and water-bearing strata,  
and determination of the water-oil boundary in cased wells. Neft.khoz.34  
no.3:43-49 Mr '56.  
(Oil well logging)

SAL'LEVICH, Yu. S. Cand Tech Sci -- (disc) "Activated analysis  
of mining rocks ~~surrounding~~ <sup>under</sup> oil well and its use for ~~the~~ <sup>water</sup>  
~~with~~ <sup>the</sup> ~~of~~ <sup>in</sup> petroleum-  
determining ~~the~~ <sup>w/</sup> location ~~of~~ <sup>on</sup> oil bearing ~~Petroliferous~~ and  
water-bearing strata." Mos, 1957. 13 pp 20 cm. (Acad Sci USSR.  
Inst of Petroleum.) 100 copies. (KL, 25-57, 114)

-93-  
85

DAKHNOV, V.N., prof., doktor geol.-miner. nauk; SHIMELEVICH, Yu.S., knnd.  
tekhn.nauk; TARKHOV, A.G., prof., doktor fiz.-mat.nauk, red.;  
KALANTAROV, A.P., vedushchiy red.; YEDOTOVA, I.G., tekhn.red.

[Exploration and working of mineral deposits; proceedings]  
Razvedka i razrabotka poleznykh iskopаемых. Moskva, Gos. nauchno-  
tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 250 p.  
(MIR, 12:1)

1. Vsesoyuznaya nauchno-tehnicheskaya konferentsiya po pri-  
meneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniyu v  
narodnom khozyaystve i naуke, Moscow, 1957. 2. Moskovskiy  
neftyanyoy institut im. I.M. Gorkina (for Dakhnov). 3. Institut  
nafti AN SSSR (for Shimelevich).

(Radioisotopes--Industrial application)  
(Mines and mineral resources) (Oil wells)

ZHURAVLICH, V. S., MELIKOV, G. A., AND KOL'YEV, V. N., U.S.S.R.

"Using the Method of Atomic Physics in Oil Prospecting and Production."

*to be*  
Report submitted at the Fifth World Petroleum Congress, 30 May -  
5 June 1959. New York.

## PAGE I WORK EXPERTISE 507/6020

*SHTIME LEVICH H, 74.5.*

Tedorenko Anatolii Shmueli Shmueli - short title Po Isotopicheskim radioisotopnym issledovaniyu i nauchno-tekhnicheskym issledovaniyu po ispol'zovaniyu radioisotopov radioaktivnykh izotopov v tekhnicheskikh zadachakh i ispol'zovaniyu radioaktivnykh izotopov v tekhnicheskikh zadachakh. I. Leningrad: Vsesoziial'naya nauchno-tekhnicheskaya laboratoriya po ispol'zovaniyu radioaktivnykh izotopov v tekhnicheskikh zadachakh i ispol'zovaniyu radioaktivnykh izotopov v tekhnicheskikh zadachakh. 1959. 370 p. - Gravure slip inserted. 4,000 copies printed.

Ed.: P.A. Anatolyev. Professor, Doctor of Geological and Mineralogical Sciences; Director, Ed.: A.P. Molchanov; Tech. Ed.: A.S. Polozkin.

PURPOSE: This book is intended for petroleum geologists, geochemists and scientists engaged in geological research who are interested in radioactive tracer signs of petroleum prospecting.

CONTENTS: The collection contains 20 articles compiled by staff members and specialists of the Laboratory for Nuclear Geophysics of the Petroleum Institute (now the Institute for Geology and Mineral Resources) of the All-Union Academy of Sciences USSR, the Laboratory for Radioactive Logging of the All-Union Scientific Research Institute of Geophysics, and the heads of scientific and planning research projects for petroleum enterprises. These articles treat new material on radiometric surveys in petroleum geology, describe radioactive instruments (seismometers, etc.) for radioactive methods and some types of methods of research with models of rock strata, radioactive tracers, analysis of real samples from petroleum-survey bore holes, etc. Problems are treated in the study and interpretation of radiometric measurements in bore holes as well as the results of studies in the methodology of the use of tritium in tracing the movement of petroleum and water in aquifers. Finally, a new method of surveying based on measuring the penetrability of the surface of a prospective horizon is described. No permanent wells are mentioned. References concerning each article.

Gerasimov, A.P., V.A. Mel'nikov, G.S. Agarunov, and A.D. Sosulin. Radiometric Survey of Petroleum and Its Use in Radiometric Oil and Gas Prospecting. 277

Mel'nikov, V.A., and A.D. Sosulin. Radiometric Liquid Measurement. An Improved Technique for Aerial Prospecting. 290

Gerasimov, A.P. Experiments in the Separate Registration of the Tritium and Tritium Compounds of Oil and Gas Radiation Using Proportional and Ion-Chamber Radiometers. 300

Filippov, Yu. N. Some Problems in the Methodology and Theory of the Gamma-Counting Method. 305

Zolotov, A.T. Effective Cross Sections of Chlorine for Slow Neutrons. 322

Terpenin, B.O., and A.S. Shchitovskiy. A Method of Separating Oil-and Water-bearing Strata, Based on Use of a Pulse-Width Spectra Source. 337

Bogolom, D.P., and A.I. Zemtsov. A High Voltage Source of 100 KV for Neutron Generators Used in Coal Wells. 346

Terpenin, B.O., L.F. Rostovtseva, L.P. Novotrit, Yu. S. Shchitovskiy, and L.I. Yulina. A Multi-Sheet Seaweed Radiation Tube. 351

Vorotnikov, J.B., and B.G. Yerofejevsky. A Laboratory Neutron Generator. 356

AVAILABLE: Library of Congress

PHASE I BOOK EXPLOITATION

SOV/3600

Yadernaya geofizika; sbornik statey po ispol'zovaniyu radioaktivnykh izlucheniy i izotopov v geologii nefti (Nuclear Geophysics; Collection of Articles on the Use of Radioactive Radiation and Isotopes in Petroleum Geology) Moscow, Gostoptekhizdat, 1959. 370 p. Errata slip inserted. 4,000 copies printed.

Ed.: F.A. Alekseyev, Professor, Doctor of Geological and Mineralogical Sciences;  
Exec. Ed.: A.P. Kalantarov; Tech. Ed.: A.S. Polosina.

PURPOSE: This book is intended for petroleum geologists, geophysicists and scientists engaged in geological research who are interested in radiometric techniques of petroleum prospecting.

COVERAGE: The collection contains 28 articles compiled by staff members and aspirants of the Laboratory for Nuclear Geology and Geophysics of the Petroleum Institute (now the Institute for Geology and Mineral Fuel Processing) of the Academy of Sciences USSR, the Laboratory for Radioactive Logging of the All-Union Scientific Research Institute of Geophysics, and the heads of councils for planning research projects for petroleum enterprises. The articles treat new material on radiometric surveying in petroleum geology, describe radio-

Card 1/7

Nuclear Geophysics; (Cont.)

SOV/3600

Alekseyev, F.A., V.P. Odinokov, and Yu. S. Shimelevich. Analysis of Rocks Based on Their Activation Under Bore Hole Conditions and the Utilization of This Method to Locate Oil- and Water-Bearing Strata	65
Aksel'rod, S.M. Mapping Petroleum-Water Surfaces of Contact in Azerbaijan Oil Fields by the Method of Induced Radioactivity of Sodium	100
Rezvanov, R.A. Possibility of the Method of Induced Radioactivity for Quantitative Evaluation of the Petrolific Capacity and Other Characteristics of Strata	103
Blankova, T.N. The Effectiveness of the Methods of Induced Radioactivity of Sodium and Chlorine to Compute the Oil- and Water-Bearing Capacity of Devonian Sandstones	110
Burov, B.M., G.N. Darvoyd, F.Ts. Denisik, B.P. Odinokov, and V.G. Shcherbinskiy. Utilization of Epithermal Neutrons in the Neutron-Neutron Method (NNM) of Evaluating the Porosity of Sand and Carbonate Collectors	121

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Odinokov, V.P., S.A. Denisik, and Yu. S. Shimelevich. Determination of the Point of Water-Petroleum Contact From Data Obtained Using the Neutron Gamma Method With Scintillation Counters (NGM-IS) and the Neutron-Neutron Method Based on Thermal Neutrons (NNM-T)	154
Blankov, Ye.B. Separation of the Radiation of Different Elements During the Investigation of Petroleum-Survey Bore Holes by the Method of Induced Radioactivity of Sodium and Chlorine	170
Dvorkin, I.L., and R.A. Rezvanov. The Use of Scintillation Counters to Count Slow Neutrons in Petroleum Survey Bore Holes	187
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Nuclear Geophysics; (Cont.)	SOV/3600
Gulin, Yu.A. Influence of the Conditions of Measuring Upon Evaluating the Porosity of Rock According to Data Obtained by the Neutron Gamma Method	201
Rudnev, O.V. Development of New Types of Radiometric Apparatus for Use in Petroleum Survey Operations	222
Tslav, L.Z. The Problem of Determining the Point of Water-Petroleum Contact Under Conditions of Cased Wells in Carbonate Deposits	228
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Nuclear Geophysics; (Cont.)

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Yerozolimskiy, B.G., L.N. Bondarenko, L.R. Voytsik, Yu. S. Shimelevich,  
and L.I. Yudin. A Small-Sized Seamless Neutron Tube

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Voytsik, L.R., and B.G. Yerozolimskiy. A Laboratory Neutron Generator

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AVAILABLE: Library of Congress

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5-24-60

PHASE I BOOK EXPLOITATION 867/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i  
yadernyykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom  
khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16  
aprelya 1960 g. Riga, v 4 tomakh. t. 4: Poiski, razvedka  
i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and  
Nuclear Radiation in the National Economy of the USSR; Tran-  
sactions on the Symposium Held in Riga, April 12 - 16, 1960; in  
4 volumes. v. 4: Prospecting, Surveying, and Mining of Min-  
eral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640  
copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tehnicheskiy komitet  
Soveta Ministrov SSSR. Gosudarstvernyy komitet Soveta Ministrov  
SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy;  
ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A.  
Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

Card 1/11

Radiactive Isotopes and Nuclear (Cont.)

SOV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE: The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Sovnarkomtehnicheskij komitet Sovet Ministrów SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Sovnarkomstroy-nii Komitet Soveta Ministrów SSSR po avtomatizatsii i mashinostroyeniju (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

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SHIMLEVICH, Yu. S.

Defense of Dissertations, Jan-Jul 1957, Section of Technical Sci.  
Vest. AN SSSR, 1957, Vol. 27, No. 12, pp 122-123

At the Petroleum Institute.

Applications for the degree of Cand. of Tech. Sci.:

AMIYAN, V. A. - Putting into operation, utilization and repair of fountain wells.

GRIGOR'YEV, V. I. - The Prevention of the Arbitrary bending of Opening Shafts  
in Turbine Drilling.

SERGEYEVICH, V. I. - Investigation of the Viscosity and the Density of Deposit  
Water of Mineral Oil Deposits and the Binary Electrolyte Solutions in Dependence on  
Temperature and Pressure.

SHIMLEVICH, Yu. S. - Activation Analysis of Rocks under the Conditions of  
Drill Holes and their Utilization for the Determination of the Position of Mineral oil  
and Water-containing Deposits.

Application for the degree of Candidate of Chemical Sci: N. Ya. CHERNYAK - The  
kinetics and the Mechanism of the Liquid-phase oxidation of dibenzyl and  
"dicyclohexyl ethane.

3/169/61/000/011/027/065  
D228/D304

AUTHORS: Alekseyev, P.A., Yerzolimskiy, B.G., Bespalov, D.P.,  
Bendarenko, L.N., Boytsik, I.P., Popov, N.V.,  
Khaustov, A.I., Romanovskiy, V.F., Shimelevich, Yu.S.  
Shkol'nikov, A.S., and Yudin, L.I.

TITLE: The result of applying neutron impulse methods and  
apparatus for investigating borehole logs

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34,  
abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh  
polezn. iskopayemykh, M., Gostoptekhizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described toge-  
ther with the method of impulse-neutron neutron-logging (INNL). A  
description is given for the electronic layout of the borehole ge-  
nerator of neutrons and the surface apparatus for impulse neutron  
logging. During laboratory tests of the generator a stable mean neu-  
tron yield of  $\sim 2 \times 10^7$  neutr./sec. was obtained at 100 kv. of acce-  
lerating voltage in the tube. The impulse duration amounted to 100

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The result of applying neutron ...

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D22E/D3C4

used, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 microseconds. Certain limitations and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. (Abstractor's note: Complete translation). 

Card 2/2

11. 11. -

PHASE I DOCUMENT EXCERPTIONS SCV/5410

1. Xalq soya konf'renсиya po mirnomu ispol'zovaniju atomnoy energii. Tashkent, 1959.

Printed Actions of the Tashkent Conference on the Peaceful Use of Atomic Energy v. 2. Tashkent, Izd-vo AN UzSSR, 1960.  
9 p. Errata slip inserted. 1,500 copies printed.

Submitting Agency: Akademiya nauk Uzbekskoy SSR.

Editor: Dr. S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abduvalayev, Candidate of Physics and Mathematics; D. N. Abdurazakov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Berodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ibranova; A. Ye. Miv; Ye. M. Piltsev, Candidate of Physics and Mathematics; A. I. Nikolshev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences Uzbek SSR; Yu. N. Tulanin,

11/20

Transactions of the Tashkent (Cont.)

SC7/5410

Institute of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Technical Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Mamatov.

PUBLISHER: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

CONTENTS: This collection of 153 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, fission, production and chemical analysis of radionuclides; synthesis; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the determining of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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Transactions of the Tashkent (Cont.) SOV/5410  
instruments used, such as automatic regulators, flowmeters,  
level meters, and high-sensitivity gamma-relays, are described.  
No facilities are mentioned. References follow individual  
articles.

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and Nuclear Radiation in Uzbekistan 7

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SOV/5410

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and A. A. Kheybarov [Institute of Nuclear Physics AS USSR].  
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AS USSR]. Results of the First Industrial Tests of a Neutron  
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285

Malakhov, J. N., V. N. Smirnov, and L. P. Starchik [Institut  
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the Activation of Po<sup>210</sup> for the Quantitative Control of En-  
riched Products Containing Beryllium, Boron, Fluorine,  
and Aluminum

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Savchenko, R. A., and B. B. Nefedov [Vsesoyuznyy n.-i. insti-  
tut zhidkochislitel'noi tekhniki - All Union Scientific  
Center]. 14/20

ABRAMYAN, S.L.; AKSEL'ROD, S.M.; ALEKSEYEV, I.A.; AL'TSHEL', S.A. [deceased],  
BESPALOV, D.V.; GADZHI-KASIMOV, A.S.; ZHILIN, K.A.; LISTENGARTEN, B.M.;  
ODINOKOV, V.P.; PUZHARADZE, L.A.; SHIMELLEVICH, Yu.S.

Neutron-neutron pulse method for investigating wells and results of  
its use in the Balakhan'-Sabunchi-Rayany field. Azerb. neft. khoz.  
(MIRA 13:12)  
39 no.11:9-13 N '60.  
(Apsheron Peninsula—Oil well logging. Radiation)

SHIMELEVICH, Yu. S.

S/169/62/000/035/041/033  
D228/D307

AUTHORS: Alekseyev, P. A., Gulin, Yu. A., Bakunov, V. N., Fic-  
arov, G. N. and Shimelevich, Yu. S.

TITLE: Use of methods of atomic physics in seeking and ex-  
ploiting oil and gas

PUBLISHER: Referativnyy zhurnal, Geofizika, no. 5, 1962, 39, ab-  
stract 5A204 (V. so. 5-y Mekhanich. neft. konfress,  
v.l. M., Gostoptekhnizdat, 1961, 325-338)

TEXT: The results of the application of radioactive methods in the  
oil and gas industry are reviewed. The accuracy of estimating the  
rock porosity from radioactivity logging data depends on a number  
of factors of a geological and a tectonic character: The salinity of  
the stratal waters and the drilling solution, the chemical compo-  
sition of the rocks, borehole - design, the position of the instru-  
ment in it, etc. The depth potential of all radioactivity logging  
methods is very small: In neutron-gamma logging it comprises 10 -  
30 cm, while in gamma-gamma logging it is 5 - 8 cm. It is noted

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3/169/62/300/005/041/033  
D228/D307

Use of methods ...

In porosity measurements the gamma-gamma logging and the neutron-neutron logging methods are more sensitive than neutron-gamma logging, especially in the region of high porosity values. Side by side with the advantages of the methods of neutron-neutron logging and gamma-gamma logging against neutron-gamma logging (the absence of any influence of the mineralization of stratal waters and drillings on the readings, the high sensitivity) they have an essential defect -- to wit, the strong influence of the borehole wall on the measurements results. The reliability of the results of porosity determinations rises considerably if a complex, combined, of neutron-neutron and gamma-gamma logging, is used. A complex device, whose design is given and which ensures the simultaneous recording of neutron-neutron and gamma-gamma logging diagrams, has recently been developed; it is intended for obtaining both about the rock porosity in unstrengthened wells. The movement of the oil-water and the gas-liquid contact zone during the exploitation of oil and gas fields can be successfully followed by means of radiometric methods. The most sensitive method of separating sand and carbonate beds into the oil- and water-bearing parts at

Carri 2/3

Use of methods ...

S/189/02/000/005/041/003  
D228/3307

the present time is the induced activity technique, whose survey depth extends to 15 - 20 cm. The methods of neutron-gamma logging and of proton-neutron logging are less sensitive; they are being used in fields with sandy collectors, saturated with highly mineralized stratified waters containing more than 150 g/l of NaCl. At the present time it has become possible to determine quite rapidly the concentration of Al, Na, Cl, Si, Ca, Mg, Fe, Cu, Br, Zn, Ni, and V, and other elements in rock samples by radioactive methods, using powerful neutron sources. Radioactive isotopes are being applied in oil-industrial practice to control a well's technique, to fracture beds hydraulically, and to solve other geological-technical problems in petroleum extraction. Research into the possibility of applying radiometry for direct oil and gas searches is cited. It is established that in the vicinity of oil fields radiometric anomalies are a particular case of the general geochemical anomaly indigenous to the latter. Hence the radiometric method should be considered as a composite part of the radio-geochemical procedure for seeking oil and gas fields. [Abstractor's note: Complete translation.]

Card 3/3

LETPUMAYA, D. I., BLATAVA, N. I., CHUMERVICH, Yu. S., EROV, D. M., and EYFOV, K. L.

"Application of Po + Th and AC + Be neutron sources in well-logging."

report to be submitted for the Conference on Nuclear Geophysics,  
Krakow, Poland, 24-30 Sept 1962.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549510012-3

ALTMAN, M., ZAFAR A., FERGUSON, P., H., G., T., THOMAS, TH., J.

SHMIDKIN, A. S., V. I. G., V. V. H., D. V.

"The Neutron-neutron Pulse Wall-Effect."

Report submitted for the Conference on Nuclear Geophysics,  
Krakow, Poland, 24-30 Sept 1970.

APPROVED FOR RELEASE: 08/23/2000

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FILIPPOV, Yevgeniy Mikhaylovich. Prinimali uchastiye: GUBERMAN, SH.A.; LEYPUNSKAYA, D.I., nauchnyy sotr., red.; BESPALOV, D.F., nauchnyy sotr., red.; SREBRODOL'SKIY, D.M., nauchnyy sotr., red.; SHIMELEVICH, Yu.S., nauchnyy sotr., red.; TEMKIN, A.Ya., red.; MEDER, V.M., red. izd-va; PRUSAKOVA, T.A., tekhn. red.; MAKUNI, Ye.V., tekhn. red.

[Applied nuclear geophysics; use of sources of nuclear radiation in geology and geophysics] Prikladnaia iadernaia geofizika; pri-menenie istochnikov iadernogo izlucheniia v geologii i geofizike. Pod obshchei red. L.S. Polaka. Moskva, Izd-vo Akad. nauk SSSR, 1962. 579 p.

1. Chlen-korrespondent Akademiya nauk SSSR (for Filippov). 2. Institut geologii i razrabotki goryuchikh iskopayemykh (for Ley-punskaya, Bespalov, Srebrodol'skiy, Shimelevich). 3. Institut neftekhimicheskogo sinteza Akademii nauk SSSR (for Temkin).  
(Nuclear geophysics)

KAIPOV, R.L.; ZIV, D.M.; LEYPUNSKAYA, D.I.; SAVOSIN, S.I.; FEDOROV, V.V.;  
PRADKIN, G.M.; SHIMELEVICH, Yu.S.; BASIN, Ya.N.; KUKHARENKO, N.K.;  
SHESTAKOV, B.I.

Use of Ac - Be neutron sources in industrial geophysics. Atom energ.  
(MIRA 17:3)  
16 no.3:269-270 Mr '64.

SHIMEL'FENIG, S., kand..tekhn.nauk (Saratov); SMIRNOV, V., kand.tekhn.nauk  
(Saratov)

Standards for the consumption of gas in the home in rural areas. Zhil.  
-kom. khaz, 12 no.10:27 Ja '62,  
(Gas as fuel) (MIA 16:2)

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Efficient tracing of access roads. Avt.dor. 20 no.9(179):25 S '57.  
(MIRA 10:10)

(Roads--Design)

SHIMEL'FENIG, S.A., kand. tekhn. nauk

Traffic capacity and performance of automobiles on highways.  
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Methods for comparing highway variants in conducting economic  
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